



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No.	:	10/538,914	Confirmation No. 5661
Applicant	:	Ulrich Schoor	
Filed	:	June 13, 2005	
TC/A.U.	:	2834	
Examiner	:	D. J. Rosenau	
Docket No.	:	R.304044	
Customer No.	:	02119	

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

The prior art listed on the attached form PTO/SB/08a is prior art which was cited in paragraph 6 of the specification.

DE 199 28 190 discloses a piezoelectric actuator, e.g. for activating a mechanical component. The inventive piezoelectric actuator has a multilayered structure of piezoelectric layers with inner electrodes (2, 3) situated in between. A first outer electrode (6) is applied to a lateral surface and provides a conductive surface, said lateral surface being connected to the respective inner electrodes (2, 3). A second mesh- or woven-type outer electrode (7) is located on the first (6). A passive area (10) without an inner electrode layer is provided in the areas of the piezoelectric layers, which each have an inner electrode (2, 3) that is connected to the opposite side, respectively. The ceramic piezoelectric material, at least in the passive area (10), and the material of the two outer electrodes (7) have an almost identical temperature expansion coefficient, which reduces the effects of mechanical tensions in the piezoelectric actuator. The second outer electrode (7) preferably consists of a nickel-iron alloy such as invar and the piezoceramic consists of lead zirconate titanate.

Serial No. 10/538,914

DE 42 01 937 and DE 101 63 005 were cited as part on the original IDS of June 13, 2005 and were part of the PCT search report which includes a statement of their relevance, and thus an additional statement is not needed at this time.

Respectfully submitted,



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Date: July 21, 2006

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Enclosure: form PTO/SB/08a

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/538,914
				Filing Date	June 13, 2005
				First Named Inventor	Ulrich SCHOOR
				Art Unit	2834
				Examiner Name	D. J. Rosenau
				Attorney Docket Number	R.304044
Sheet	1	of	1		

U.S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

[illegible]

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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